Abstract of Quality Assurance plan (ROAD)

Name of Work :	Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra												
Estimate Cost :	2 Crores		Tender Agreement no & Date:					Contractor:		Sri. Vinaya Builders, Prop.Kumar Raju K, No.10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97			
As Per tender/ Date of commencement of work :					As Per tender /Date of completion of work:								
Sl No	Materials required for finishined item of work	Unit	Quantity of Materials	Name of Test to be Conducted	No of Tests Required	No of test by		No of test by Competent Authority / Manufacturer	Total nos of test conducted by		Frequency as per Relevent IS Codes and MoRTH Quality Plans	Reference	Remarks
						Const Sub-Dn	QA Sub-dn		Const Sub-Dn	QA Sub-dn			
Concrete works													
1	40 mm and down size Coarse aggregate	Cum	321.06	Gradation	3 Tests						One Test per 100 Cum/ or Change in source	IS 383-2016, IS2386(part1 - 8)	Any change in source / visual observations, number of tests may be increased and subsequently on monthly basis
				Flakiness and Elongation index	1 Test						Once at beginning for each source	IS 383-2016, IS2386(part1)-1963 &2430-1969	
				Impact value	1 Test							IS 383-2016, IS2386(part IV)-1963 &2430-1969	
				Water Absorbtion	1 Test							IS 383-2016, IS2386(part III)-1963 &2430-1969	

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು

Sl No	Materials required for finishined item of work	Unit	Quantity of Materials	Name of Test to be Conducted	No of Tests Required	No of test by		No of test by Competent Authority / Manufacturer	Total nos of test conducted by		Frequency as per Relevent IS Codes and MoRTH Quality Plans	Reference	Remarks
						Const Sub-Dn	QA Sub-dn		Const Sub-Dn	QA Sub-dn			
2	20 mm and 12.5 mm down size Coarse aggregate	Cum	419.80	Gradation	4 Tests						One Test per 100 Cum/ or Change in source	IS 383-2016, IS2386(part1)-1963 & sampling 2430-1969 ,4926-2003	Any change in source / visual observations, number of tests may be increased and subsequently on monthly basis
				Flakiness and Elongation index	1 Test						Once at beginning for each source	IS 383-2016, IS2386(part1)-1963 &2430-1969	
				Impact value	1 Test							IS 383-2016, IS2386(part IV)-1963 &2430-1969	
				Water Absorbtion	1 Test							IS 383-2016, IS2386(part III)-1963 &2430-1969	
3	Fine aggregate	Cum	370.43	Seive analysis	4 Tests						One Test per 100 cum or Change in source	IS 383-2016, IS2386(part 2)-1963 &2430-1969	Any change in source / visual observations, number of tests may be increased
4	Cement	Bags	1361	Normal Consistency	1 Test						1 test for every 5000 bags/1 test for each consignment/ as decided by the engineer incharge	IS 269, IS 455, IS 1489, IS 8112-1989 IS 12269-1987	Any change in cement grade/brand test to be carried out
				Initial setting time	1 Test								
				Final setting time	1 Test								
				Compressive strength	1 Test								

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ದ್ಯಾಪರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದ್ಯಾಪರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-24

Sl No	Materials required for finishined item of work	Unit	Quantity of Materials	Name of Test to be Conducted	No of Tests Required	No of test by		No of test by Competent Authority / Manufacturer	Total nos of test conducted by		Frequency as per Relevent IS Codes and MoRTH Quality Plans	Reference	Remarks
						Const Sub-Dn	QA Sub-dn		Const Sub-Dn	QA Sub-dn			
5	Steel (Fe-500)	Tonne	47.44	Tensile test							One Test for Each Consignment (all dia of rods)	IS 1786-2008 & IS1608-2005	Certificate from authorised testing labs followed by Manufactures certificate.
				a) Dia of bar 10.12	1 Test								
				b) weight/mtr 0.616,0.888	1 Test								
				c) Yield stress 562,582	1 Test								
				d) Tensile test 698,705	1 Test								
				Bend and re- bend test	1 Test							IS 1786-2008 & IS1599-1985	
				Chemical Analysis C-0.30 S-0.055 ph-0.055 S&ph-0.105	1 Test							IS 1786-2008 & IS 228 (part1-24)	

ಸಹಾಯಕ ಅಭಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-26

Sl No	Materials required for finishined item of work	Unit	Quantity of Materials	Name of Test to be Conducted	No of Tests Required	No of test by		No of test by Competent Authority / Manufacturer	Total nos of test conducted by		Frequency as per Relevent IS Codes and MoRTH Quality Plans	Reference	Remarks
						Const Sub-Dn	QA Sub-dn		Const Sub-Dn	QA Sub-dn			
6	Concrete M20	Cum	769.63	Mix Design	1 Set							IS 456-2000,IS4926-2003,IS 516-1959 & 1199-1959 IS 8112-1989 for 43 grade IS 12269-1987 for 53 grade	Mix design performed at the beginning of work by contractor & get approval from competent authority
				Slump Test	2 Tests per day						2 Tests per Day / as required at Site		
				7 days Compressive Strength	12 Sets						1-5cum - 1 set, 5-15 cum- 2 set, 15-30cum- 3 set, 30-50cum - 4 set , aabove 50 cum- additio 1 set and above 100 cum - 1 set for every 100 cum . For RMC concrete 1 set for every 50cum or part/ As decided by Engineer Incharge		
				28 days Compressive Strength	12 Sets								

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Sl No	Materials required for finishined item of work	Unit	Quantity of Materials	Name of Test to be Conducted	No of Tests Required	No of test by		No of test by Competent Authority / Manufacturer	Total nos of test conducted by		Frequency as per Relevent IS Codes and MoRTH Quality Plans	Reference	Remarks
						Const Sub-Dn	QA Sub-dn		Const Sub-Dn	QA Sub-dn			
7	RMC Concrete M30	Cum	207.98	Mix Design	1 Set							IS 456-2000,IS4926-2003,IS 516-1959 & 1199-1959 IS 8112-1989 for 43 grade IS 12269-1987 for 53 grade	Mix design performed at the beginning of work by contractor & get approval from competent authority
				Slump Test	2 Tests per day						2 Tests per Day / as required at Site		The RMC should be Obtained only from the Plant Certified by the Quality Council of India as per the letter no. CE(C&B) dated. 02.09.2015
				7 days Compressive Strength	6 Sets						1-5cum - 1 set, 5-15 cum- 2 set, 15-30cum- 3 set, 30-50cum - 4 set , aabove 50 cum- additio 1 set and above 100 cum - 1 set for every 100 cum . For RMC concrete 1 set for every 50cum or part/ As decided by Engineer Incharge		
				28 days Compressive Strength	6 Sets								

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

Sl No	Materials required for finishined item of work	Unit	Quantity of Materials	Name of Test to be Conducted	No of Tests Required	No of test by		No of test by Competent Authority / Manufacturer	Total nos of test conducted by		Frequency as per Relevent IS Codes and MoRTH Quality Plans	Reference	Remarks
						Const Sub-Dn	QA Sub-dn		Const Sub-Dn	QA Sub-dn			
8	Granular sub base	Cum	207.98	Mix Design	1 Set								Mix Design performed at the begining of work by contractor and get approval from competant authorityfor more than 1 crore work or quantity more than 100 cum
				Physical properties of Aggregates / Design Mix	1 Test						One test per 400cum/1 test each source by QA	IS 383-2016, IS2386(part1)-1963 & sampling 2430-1969 ,4926-2003	
				Lab MDD & OMC	1 Test								
				Gradation	1 Test						One test /400Cum		
		Sqm	1386.53	Field Density	1 Test						One test /1000Sqm		
		Mtr.	-	Camber							1 test/ 500m		

Note.

1 For Water Suppy, Sanitory, Electrical and other Items nessasary certificate indicating the quality as per the prescribed IS shall be obtained by the Authorised/Manufactures shall be obtained during the execution of the Work.

Assistant Engineer
(Ward No.66)

Assistant Executive Engineer
(Byatarayanapura Sub Division)

Executive Engineer
(Byatarayanapura Divison)

CIVIL Pro
Sig
Date
BANGALORE